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L1: Entry 2 of 8 File: USPT Feb 3, 2004

US-PAT-NO: 6685946
DOCUMENT-IDENTIFIER: US 6685946 B2
** See image for Certificate of Correction **

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/204.1, 424/206.1, 435/91.1, 435/91.33, 435/91.41, 530/300, 536/23.72

CLAIMS:

What is claimed is:

1. An isolated equine influenza nucleic acid molecule selected from the group consisting of: a. an insolated nucleic acid molecule that encodes a protein comprising an amino acid sequence selected from the group consisting of SEQ ID NO:69, SEQ ID NO:92, and SEQ ID NO:107; and b. an isolated nucleic acid molecule fully complementary to a nucleic acid molecule of (a); wherein said nucleic acid molecule of (a) or (b) is not an entire equine influenza virus genome.

2. The nucleic acid molecule of claim 1, wherein said nucleic acid molecule comprises a nucleic acid sequence selected from the group consisting of SEQ ID NO:68, SEQ ID NO:70, SEQ ID NO:91, SEQ ID NO:93, SEQ ID NO:106 and SEQ ID NO:108 and a nucleic acid molecule comprising a nucleic acid sequence which is fully complementary to any of said nucleic acid sequences.

3. A nucleic acid molecule of claim 1, wherein said nucleic acid molecule encodes a protein.

4. A nucleic acid molecule of claim 1, wherein said nucleic acid molecule encodes a protein selected from the group consisting of Pei.sub.ca1 PB1-C.sub.396, and Pei.sub.ca1 PB1.sub.757.

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L1: Entry 4 of 8 File: USPT Jun 17, 2003

US-PAT-NO: 6579528
DOCUMENT-IDENTIFIER: US 6579528 B1

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: June 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/204.1, 424/205.1, 435/91.1, 435/91.33, 435/91.41, 530/300, 536/23.72

CLAIMS:

What is claimed:

1. An isolated equine influenza nucleic acid molecule selected from the group consisting of (a) an isolated nucleic acid molecule selected from the group consisting of SEQ ID NO:4 and SEQ ID NO:6, and (b) a nucleic acid molecule comprising a nucleic acid sequence which is fully complementary to any of said nucleic acid sequences of (a); wherein said nucleic acid molecule of (a) or (b) is not an entire equine influenza virus genome.

2. The invention according to claim 1, wherein said nucleic acid molecule comprises a cold-adapted equine influenza virus having a nucleic acid sequence selected from the group consisting of SEQ ID NO:4 and SEQ ID NO:6.

3. The invention according to claim 1, wherein said nucleic acid molecule encodes a protein comprising SEQ ID NO:5.

4. A isolated equine influenza nucleic acid molecule, wherein said equine influenza nucleic acid molecule encodes a protein SEQ ID NO:5, wherein said isolated nucleic acid molecule is not an entire equine influenza virus genome.

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☐ 15:

Modified pulmonary surfactant is a potent adjuvant that stimulates the mucosal IgA production in response to the influenza virus antigen.
J Immunol. 2006 Jan 15;176(2):1122-30.
PMID: 16394001 [PubMed - indexed for MEDLINE]

☐ 16: Soboll G, Nelson KM, Leuthner ES, Clark RJ, Drape R, Macklin MD, Swain WF, Olsen CW, Lunn DP. Related Articles, Links

Mucosal co-administration of cholera toxin and influenza virus hemagglutinin-DNA in ponies generates a local IgA response.
Vaccine. 2003 Jun 20;21(21-22):3081-92.
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Vaccine. 1996 Dec;14(17-18):1651-6.
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J Immunol. 2002 Mar 15;168(6):2930-8.
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☐ 19: Matsuo K, Yoshikawa T, Asanuma H, Iwasaki T, Hagiwara Y, Chen Z, Kadowaki SE, Tsujimoto H, Kurata T, Tamura SI. Related Articles, Links

Induction of innate immunity by nasal influenza vaccine administered in combination with an adjuvant (cholera toxin).
Vaccine. 2000 Jun 1;18(24):2713-22.
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☐ 20: Chen KS, Burlington DB, Quinnan GV Jr. Related Articles, Links

Active synthesis of hemagglutinin-specific immunoglobulin A by lung cells of mice that were immunized intragastrically with inactivated influenza virus vaccine.
J Virol. 1987 Jul;61(7):2150-4.
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		DB=USPT; PLUR=YES; OP=ADJ	
☐	L4	6482414.pn. and 58	1
☐	L3	6177082.pn.	1
☐	L2	6177082.pn. and 58	0
☐	L1	6685946.pn. and 58	1

END OF SEARCH HISTORY

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L1: Entry 1 of 8 File: USPT Nov 30, 2004

US-PAT-NO: 6824784
DOCUMENT-IDENTIFIER: US 6824784 B2

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/204.1, 435/91.1, 435/91.33, 530/300, 536/23.72

CLAIMS:

What is claimed:

1. An isolated equine influenza nucleic acid molecule selected from the group consisting of (a) an isolated nucleic acid molecule selected from the group consisting of (a) SEQ ID NO:10, and SEQ ID NO:12, and (b) a nucleic acid molecule comprising a nucleic acid sequence which is fully complementary to any of said nucleic acid sequences of (a); wherein said nucleic acid molecule of (a) or (b) is not an entire equine influenza virus genome.

2. An isolated equine influenza nucleic acid molecule, wherein said equine influenza nucleic acid molecule encodes a protein comprising an amino acid sequence SEQ ID NO:11, wherein said isolated nucleic acid molecule is not an entire equine influenza virus genome.

3. The invention according to claim 1, wherein said nucleic acid molecule comprises a cold-adapted equine influenza virus having a nucleic acid sequence selected from the group consisting of SEQ ID NO:10, and SEQ ID NO:12.

4. The invention according to claim 1, wherein said nucleic acid molecule comprises a cold-adapted equine influenza virus encoding an HA protein, said HA protein having an amino acid sequence comprising SEQ ID NO:11.

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Field: **Author,** Limits: **Entrez Date from 1998 to 1998, Publication Date from 1998 to 1998**

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All: 167 Review: 4

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1: Lindstrom S, Endo A, Sugita S, Pecoraro M, Hiromoto Y, Kamada M, Takahashi T, Nerome K. Related Articles, Links

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3: Lindstrom SE, Hiromoto Y, Nishimura H, Saito T, Nerome R, Nerome K. Related Articles, Links

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6: Hiromoto Y, Yamazaki Y, Fukushima T, Saito T, Lindstrom SE, Omoe K, Nerome R, Lim W, Sugita S, Nerome K. Related Articles, Links

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J Gen Virol. 2000 May;81(Pt 5):1293-303.

PMID: 10769072 [PubMed - indexed for MEDLINE]

☐ 7: Gorman OT, Bean WJ, Kawaoka Y, Webster RG. Related Articles, Links

Evolution of the nucleoprotein gene of influenza A virus.
J Virol. 1990 Apr;64(4):1487-97.
PMID: 2319644 [PubMed - indexed for MEDLINE]

☐ 8: Suarez DL, Garcia M, Latimer J, Senne D, Perdue M. Related Articles, Links

Phylogenetic analysis of H7 avian influenza viruses isolated from the live bird markets of the Northeast United States.
J Virol. 1999 May;73(5):3567-73.
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Replacement of internal protein genes, with the exception of the matrix, in equine 1 viruses by equine 2 influenza virus genes during evolution in nature.
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Virus Res. 2005 Dec;114(1-2):89-100. Epub 2005 Jul 21.
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☐ 13: Nakajima K, Nobusawa E, Ogawa T, Nakajima S. Related Articles, Links

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☐ 14: Basler CF, Reid AH, Dybing JK, Janczewski TA, Fanning TG, Zheng H, Salvatore M, Perdue ML, Swayne DE, Garcia-Sastre A, Palese P, Taubenberger JK. Related Articles, Links

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PMID: 8627254 [PubMed - indexed for MEDLINE]

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☐ 1. Document ID: US 6824784 B2

L1: Entry 1 of 8 File: USPT Nov 30, 2004

US-PAT-NO: 6824784
DOCUMENT-IDENTIFIER: US 6824784 B2

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: November 30, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/204.1, 435/91.1, 435/91.33, 530/300, 536/23.72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 6685946 B2

L1: Entry 2 of 8 File: USPT Feb 3, 2004

US-PAT-NO: 6685946
DOCUMENT-IDENTIFIER: US 6685946 B2
** See image for Certificate of Correction **

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: February 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/204.1, 424/206.1, 435/91.1, 435/91.33, 435/91.41, 530/300, 536/23.72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 3. Document ID: US 6649169 B2

L1: Entry 3 of 8 File: USPT Nov 18, 2003

US-PAT-NO: 6649169
DOCUMENT-IDENTIFIER: US 6649169 B2
** See image for Certificate of Correction **

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: November 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/204.1, 424/206.1, 435/235.1, 435/237, 435/239

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 4. Document ID: US 6579528 B1

L1: Entry 4 of 8 File: USPT Jun 17, 2003

US-PAT-NO: 6579528
DOCUMENT-IDENTIFIER: US 6579528 B1

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: June 17, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/204.1, 424/205.1, 435/91.1, 435/91.33, 435/91.41, 530/300, 536/23.72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 5. Document ID: US 6482414 B1

L1: Entry 5 of 8 File: USPT Nov 19, 2002

US-PAT-NO: 6482414
DOCUMENT-IDENTIFIER: US 6482414 B1

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: November 19, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/186.1, 424/204.1, 435/91.1, 435/91.33, 530/300

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 6. Document ID: US 6436408 B1

L1: Entry 6 of 8 File: USPT Aug 20, 2002

US-PAT-NO: 6436408
DOCUMENT-IDENTIFIER: US 6436408 B1

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: August 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/204.1, 424/206.1, 435/235.1, 435/237, 435/239

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw De

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☐ 7. Document ID: US 6177082 B1

L1: Entry 7 of 8 File: USPT Jan 23, 2001

US-PAT-NO: 6177082
DOCUMENT-IDENTIFIER: US 6177082 B1

TITLE: Cold-adapted equine influenza viruses

DATE-ISSUED: January 23, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dowling; Patricia W.	Pittsburgh	PA		
Youngner; Julius S.	Pittsburgh	PA		

US-CL-CURRENT: 424/209.1; 424/204.1, 424/206.1, 435/235.1, 435/237, 435/239

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 8. Document ID: US 5149531 A

L1: Entry 8 of 8 File: USPT Sep 22, 1992

US-PAT-NO: 5149531
DOCUMENT-IDENTIFIER: US 5149531 A
**** See image for Certificate of Correction ****

TITLE: Method of using cold-adapted live influenza virus vaccine as an antiviral agent against influenza

DATE-ISSUED: September 22, 1992

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Youngner; Julius S.	Pittsburgh	PA		
Dowling; Patricia W.	Pittsburgh	PA		

US-CL-CURRENT: 424/93.6; 424/209.1, 424/821

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

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Terms	Documents
Dowling Patricia.in.	8

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Search Results - Record(s) 1 through 2 of 2 returned.

☐ 1. Document ID: US 20040223980 A1, WO 200174386 A2, US 20010051161 A1, AU 200149300 A, EP 1267920 A2, JP 2003528925 W

L2: Entry 1 of 2 File: DWPI Nov 11, 2004

DERWENT-ACC-NO: 2002-010769
DERWENT-WEEK: 200475
COPYRIGHT 2006 DERWENT INFORMATION LTD
TITLE: Treating an animal for respiratory disease, particularly caused by equine influenza virus, comprises administering a composition comprising a virus a cold-adapted equine influenza virus or a reassortant influenza A virus

INVENTOR: DOWLING, P W; YOUNGNER, J S ; YOUNGER, J S

PRIORITY-DATA: 2000US-194325P (April 3, 2000), 2001US-0813920 (March 21, 2001), 2002US-0239972 (December 23, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 20040223980 A1	November 11, 2004		000	A61K039/145
WO 200174386 A2	October 11, 2001	E	049	A61K039/12
US 20010051161 A1	December 13, 2001		000	A61K039/145
AU 200149300 A	October 15, 2001		000	
EP 1267920 A2	January 2, 2003	E	000	A61K039/145
JP 2003528925 W	September 30, 2003		062	A61K039/145

INT-CL (IPC): A01 K 13/00; A61 K 39/12; A61 K 39/145; A61 P 11/00; A61 P 31/04; A61 P 31/12; A61 P 31/16; C12 Q 1/70

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US 6824784 B2, WO 200009702 A1, AU 9954877 A, US 6177082 B1, EP 1105497 A1, US 6436408 B1, JP 2002522078 W, AU 760356 B, US 6579528 B1, US 20030180322 A1, US 20030199074 A1, US 6649169 B2, US 20040022809 A1, US 20040137015 A1, US 20040234553 A1

L2: Entry 2 of 2 File: DWPI Nov 30, 2004

DERWENT-ACC-NO: 2000-224339
DERWENT-WEEK: 200479
COPYRIGHT 2006 DERWENT INFORMATION LTD
TITLE: New cold-adapted equine influenza viruses and reassortant viruses used as vaccines for treating influenza infections in animals, particularly horses, have a

phenotype such as temperature sensitivity or dominant interference

INVENTOR: DOWLING, P W; YOUNGNER, J S

PRIORITY-DATA: 1998US-0133921 (August 13, 1998), 2000US-0634159 (August 9, 2000), 2001US-0762861 (August 24, 2001), 2002US-0180633 (June 26, 2002), 2003US-0434811 (May 8, 2003), 2004US-0872014 (June 18, 2004)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
US 6824784 B2	November 30, 2004		000	A61K039/145
WO 200009702 A1	February 24, 2000	E	127	C12N015/44
AU 9954877 A	March 6, 2000		000	
US 6177082 B1	January 23, 2001		000	A61K039/145
EP 1105497 A1	June 13, 2001	E	000	C12N015/44
US 6436408 B1	August 20, 2002		000	A61K039/145
JP 2002522078 W	July 23, 2002		141	C12N015/09
AU 760356 B	May 15, 2003		000	C12N015/44
US 6579528 B1	June 17, 2003		000	A61K039/145
US 20030180322 A1	September 25, 2003		000	C12P021/06
US 20030199074 A1	October 23, 2003		000	A61K039/145
US 6649169 B2	November 18, 2003		000	A61K039/145
US 20040022809 A1	February 5, 2004		000	A61K039/145
US 20040137015 A1	July 15, 2004		000	A61K039/145
US 20040234553 A1	November 25, 2004		000	A61K039/145

20040234553 A1 INT-CL (IPC): A61 K 39/12; A61 K 39/145; A61 P 31/16; C07 H 21/04; C07 K 14/11; C07 K 14/115; C12 N 7/00; C12 N 7/02; C12 N 7/04; C12 N 7/08; C12 N 15/09; C12 N 15/44; C12 P 19/34; C12 P 21/06; C12 N 7/04; C12 R 1:92

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Drawi Ds

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Cold-adapted equine influenza viruses	2

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☐ 1. Document ID: US 20050175985 A1

L3: Entry 1 of 9 File: PGPB Aug 11, 2005

PGPUB-DOCUMENT-NUMBER: 20050175985
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050175985 A1

TITLE: Cold-adapted equine influenza viruses

PUBLICATION-DATE: August 11, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dowling, Patricia W	Pittsburgh	PA	US
Youngner, Julius S	Pittsburgh	PA	US

US-CL-CURRENT: 435/5; 435/235.1, 530/350, 536/23.72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 2. Document ID: US 20050039739 A1

L3: Entry 2 of 9 File: PGPB Feb 24, 2005

PGPUB-DOCUMENT-NUMBER: 20050039739
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050039739 A1

TITLE: Equine intranasal delivery system

PUBLICATION-DATE: February 24, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Penner, Steven J.	Broomfield	CO	US
Sebring, Randal W.	Fort Collins	CO	US

US-CL-CURRENT: 128/200.23

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 3. Document ID: US 20040234553 A1

L3: Entry 3 of 9 File: PGPB Nov 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040234553
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040234553 A1

TITLE: Cold-adapted equine influenza viruses

PUBLICATION-DATE: November 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dowling, Patricia W.	Pittsburgh	PA	US
Youngner, Julius S.	Pittsburgh	PA	US

US-CL-CURRENT: 424/206.1; 435/235.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 4. Document ID: US 20040223980 A1

L3: Entry 4 of 9 File: PGPB Nov 11, 2004

PGPUB-DOCUMENT-NUMBER: 20040223980
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040223980 A1

TITLE: Cold-adapted equine influenza viruses

PUBLICATION-DATE: November 11, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dowling, Patricia W	Pittsburgh	PA	US
Younger, Julius S	Pittsburgh	PA	US

US-CL-CURRENT: 424/206.1; 435/5

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 5. Document ID: US 20040137015 A1

L3: Entry 5 of 9 File: PGPB Jul 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040137015
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040137015 A1

TITLE: Cold-adapted equine influenza viruses

PUBLICATION-DATE: July 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dowling, Patricia W.	Pittsburgh	PA	US
Youngner, Julius S.	Pittsburgh	PA	US

US-CL-CURRENT: 424/209.1; 435/235.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 6. Document ID: US 20040022809 A1

L3: Entry 6 of 9 File: PGPB Feb 5, 2004

PGPUB-DOCUMENT-NUMBER: 20040022809
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040022809 A1

TITLE: Cold-adapted equine influenza viruses

PUBLICATION-DATE: February 5, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dowling, Patricia W.	Pittsburgh	PA	US
Youngner, Julius S.	Pittsburgh	PA	US

US-CL-CURRENT: 424/206.1; 435/235.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 7. Document ID: US 20030199074 A1

L3: Entry 7 of 9 File: PGPB Oct 23, 2003

PGPUB-DOCUMENT-NUMBER: 20030199074
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030199074 A1

TITLE: Cold-adapted equine influenza viruses

PUBLICATION-DATE: October 23, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dowling, Patricia W.	Pittsburgh	PA	US
Youngner, Julius S.	Pitsburgh	PA	US

US-CL-CURRENT: 435/235.1; 530/350, 536/23.72

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 8. Document ID: US 20030180322 A1

L3: Entry 8 of 9 File: PGPB Sep 25, 2003

PGPUB-DOCUMENT-NUMBER: 20030180322
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030180322 A1

TITLE: Cold-adapted equine influenza viruses

PUBLICATION-DATE: September 25, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dowling, Paticia W.	Pittsburgh	PA	US
Youngner, Julius S.	Pittsburgh	PA	US

US-CL-CURRENT: 424/204.1; 424/186.1, 435/69.1, 435/91.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

☐ 9. Document ID: US 20010051161 A1

L3: Entry 9 of 9 File: PGPB Dec 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010051161
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010051161 A1

TITLE: Cold-adapted equine influenza viruses

PUBLICATION-DATE: December 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Dowling, Patricia W.	Pittsburgh	PA	US
Youngner, Julius S.	Pittsburgh	PA	US

US-CL-CURRENT: 424/206.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw. D

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Terms	Documents
Cold-adapted equine influenza viruses	9

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